



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/398,652	09/17/99	SAMARAS	W 042390.P5120

QM32/1004

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EXAMINER

CHANG, R

ART UNIT	PAPER NUMBER
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3729

DATE MAILED:

10/04/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/398,652

Applicant(s)
Samaras et al

Examiner
Rick Kiltae Chang

Group Art Unit
3729



☒ Responsive to communication(s) filed on Sep 15, 2000

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), ~~or thirty days~~, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 19-26 ~~is/are~~ pending in the application.

Of the above, claim(s) 22, 24, and 25 ~~is/are~~ withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 19-21, 23, and 26 ~~is/are~~ rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 3729

DETAILED ACTION

Election/Restriction

1. Applicant's election without traverse of Species I in Paper No. 4 is acknowledged.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 19-21, 23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gedney et al (US 5,483,421).

Gedney discloses fabricating an interposer with organic material; populating the second surface with a plurality of conductive pads; coupling solder balls; coupling at least one die; coupling the interposer to a substrate; electrically connecting the selected ones of the pads (Fig. 5).

Gedney fails to disclose coupling at least one passive device and testing the interposer.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to couple the interposer with at least one passive device as well as testing the interposer in order to lower production costs and regulating the voltage and current to the assembled package.

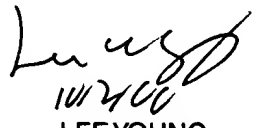
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Conclusion

4. Examiner requests the applicants to provide examiner-friendly written communication by providing support in the specification for any changes to the claims.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick Chang whose telephone number is (703) 308-4784.

rc

October 2, 2000


LEE YOUNG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700